Amendments to the Claims

1. (Currently Amended): A method of forming a patterned photoresist layer over a semiconductor substrate, comprising:

providing a semiconductor substrate having an outer surface; the outer surface comprising at least one of a silicon oxide-containing material, an organic-containing material, a silicon nitride-containing material, or a silicon carbide-containing material;

treating the outer surface with a basic fluid;

applying photoresist onto the outer surface which has been treated with the basic treating fluid; and

patterning and developing the photoresist to form a patterned photoresist layer having laterally projecting feet proximate the semiconductor substrate outer surface.

- 2. (Original): The method of claim 1 wherein the outer surface is organic.
- 3. (Original): The method of claim 1 wherein the outer surface is inorganic.
- 4. (Currently Amended): The method of claim 1 wherein the outer surface comprises a nitride silicon nitride.

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Claims 5 and 6 (Canceled)

- 7. (Original): The method of claim 1 wherein the outer surface comprises silicon dioxide.
- 8. (Original): The method of claim 1 wherein the outer surface comprises silicon carbide.
- 9. (Original): The method of claim 1 wherein the basic treating fluid has a pH of at least 8.5.
- 10. (Original): The method of claim 1 wherein the basic treating fluid has a pH of at least 10.5.
- 11. (Original): The method of claim 1 wherein the basic treating fluid is liquid.
- 12. (Original): The method of claim 1 wherein the basic treating fluid is gaseous.
- 13. (Original): The method of claim 1 wherein the basic treating fluid comprises tetramethyl ammonium hydroxide.

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- 14. (Original): The method of claim 1 wherein the basic treating fluid comprises potassium hydroxide.
- 15. (Original): The method of claim 1 wherein the basic treating fluid comprises sodium hydroxide.
- 16. (Original): The method of claim 1 wherein the basic treating fluid comprises ammonium fluoride.
- 17. (Original): The method of claim 1 wherein the basic treating fluid comprises an alkyl amine.
- 18. (Previously Presented): A method of forming a patterned photoresist layer over a semiconductor substrate, comprising:

providing a semiconductor substrate having an outer surface;

treating the outer surface with a basic fluid, the basic treating fluid being at room ambient temperature and room ambient pressure during the treating;

applying photoresist onto the outer surface which has been treated with the basic treating fluid; and

patterning and developing the photoresist to form a patterned photoresist layer.

- 19. (Original): The method of claim 1 wherein the treating is for no more than 2 minutes.
- 20. (Original): The method of claim 1 wherein the treating is for no more than 1 minute.
- 21. (Original): The method of claim 1 wherein the photoresist is a positive photoresist.
- 22. (Original): The method of claim 1 wherein the photoresist is a negative photoresist.
- 23. (Original): The method of claim 1 wherein the outer surface is not exposed to any liquid intermediate the treating and the applying.
- 24. (Original): The method of claim 1 wherein the outer surface is at least partially dried intermediate the treating and the applying.
- 25. (Original): The method of claim 1 wherein the outer surface is completely dried intermediate the treating and the applying.

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26. (Original): The method of claim 1 wherein,

the outer surface is not exposed to any liquid intermediate the treating and the applying; and

the outer surface is at least partially dried intermediate the treating and the applying.

- 27. (Original): The method of claim 26 wherein the basic treating fluid is liquid.
- 28. (Original): The method of claim 26 wherein the outer surface is completely dried intermediate the treating and the applying.
- 29. (Previously Presented): The method of claim 1 wherein the outer surface is reflective of incident radiation used in said patterning of the photoresist.

30. (Currently Amended): A method of forming a patterned photoresist layer over a semiconductor substrate, comprising:

providing a semiconductor substrate having an outer surface; the outer surface comprising at least one of a silicon oxide-containing material, an organic-containing material, a silicon nitride-containing material, or a silicon carbide-containing material;

treating the outer surface with a basic fluid;

applying a positive photoresist onto the outer surface which has been treated with the basic treating fluid; and

patterning and developing the positive photoresist effective to form a patterned photoresist layer having increased footing at a base region of said layer than would otherwise occur in the absence of said treating the outer surface.

- 31. (Original): The method of claim 30 wherein the outer surface is not exposed to any liquid intermediate the treating and the applying.
- 32. (Original): The method of claim 30 wherein the outer surface is at least partially dried intermediate the treating and the applying.
- 33. (Original): The method of claim 30 wherein the outer surface is completely dried intermediate the treating and the applying.

34. (Original): The method of claim 30 wherein,

the outer surface is not exposed to any liquid intermediate the treating and the applying; and

the outer surface is at least partially dried intermediate the treating and the applying.

- 35. (Original): The method of claim 34 wherein the basic treating fluid is liquid.
- 36. (Original): The method of claim 34 wherein the outer surface is completely dried intermediate the treating and the applying.
- 37. (Original): The method of claim 30 wherein the outer surface is organic.
- 38. (Original): The method of claim 30 wherein the outer surface is inorganic.
- 39. (Currently Amended): The method of claim 30 wherein the outer surface comprises a nitride silicon nitride.
- 40. (Original): The method of claim 30 wherein the outer surface comprises silicon dioxide.

- 41. (Original): The method of claim 30 wherein the outer surface comprises silicon carbide.
- 42. (Original): The method of claim 30 wherein the basic treating fluid has a pH of at least 8.5.
- 43. (Original): The method of claim 30 wherein the basic treating fluid has a pH of at least 10.5.
- 44. (Original): The method of claim 30 wherein the basic treating fluid is liquid.
- 45. (Original): The method of claim 30 wherein the basic treating fluid is gaseous.
- 46. (Original): The method of claim 30 wherein the basic treating fluid comprises tetramethyl ammonium hydroxide.
- 47. (Original): The method of claim 30 wherein the basic treating fluid comprises potassium hydroxide.

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- 48. (Original): The method of claim 30 wherein the basic treating fluid comprises sodium hydroxide.
- 49. (Original): The method of claim 30 wherein the basic treating fluid comprises ammonium fluoride.
- 50. (Original): he method of claim 30 wherein the basic treating fluid comprises an alkyl amine.
- 51. (Currently Amended): The method of claim 30 wherein A method of forming a patterned photoresist layer over a semiconductor substrate, comprising:

providing a semiconductor substrate having an outer surface;

treating the outer surface with a basic fluid, the basic treating fluid is at being at room ambient temperature and room ambient pressure during the treating:

applying a positive photoresist onto the outer surface which has been treated with the basic treating fluid; and

patterning and developing the positive photoresist effective to form a patterned photoresist layer having increased footing at a base region of said layer than would otherwise occur in the absence of said treating the outer surface.

- 52. (Previously Presented): The method of claim 30 wherein the outer surface is reflective of incident radiation used in said patterning of the photoresist.
- 53. (Currently Amended): A method of forming a patterned photoresist layer over a semiconductor substrate, comprising:

providing a semiconductor substrate;

depositing an antireflective coating over the semiconductor substrate, the antireflective coating having an outer surface; the outer surface comprising at least one of a silicon oxide-containing material, an organic-containing material, a silicon nitride-containing material, or a silicon carbide-containing material;

treating the outer surface with a basic fluid;

applying a positive photoresist onto the outer surface which has been treated with the basic treating fluid; and

patterning and developing the positive photoresist effective to form a patterned photoresist layer having increased footing at a base region of said layer than would otherwise occur in the absence of said treating the outer surface.

54. (Original): The method of claim 53 wherein the outer surface is not exposed to any liquid intermediate the treating and the applying.

- 55. (Original): The method of claim 53 wherein the outer surface is at least partially dried intermediate the treating and the applying.
- 56. (Original): The method of claim 53 wherein the outer surface is completely dried intermediate the treating and the applying.
 - 57. (Original): The method of claim 53 wherein,

the outer surface is not exposed to any liquid intermediate the treating and the applying; and

the outer surface is at least partially dried intermediate the treating and the applying.

- 58. (Original): The method of claim 57 wherein the basic treating fluid is liquid.
- 59. (Original): The method of claim 57 wherein the outer surface is completely dried intermediate the treating and the applying.
- 60. (Original): The method of claim 53 wherein the outer surface is organic.
- 61. (Original): The method of claim 53 wherein the outer surface is inorganic.

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- 62. (Original): The method of claim 53 wherein the basic treating fluid has a pH of at least 8.5.
- 63. (Original): The method of claim 53 wherein the basic treating fluid has a pH of at least 10.5.
- 64. (Original): The method of claim 53 wherein the basic treating fluid is liquid.
- 65. (Original): The method of claim 53 wherein the basic treating fluid is gaseous.
- 66. (Original): The method of claim 53 wherein the basic treating fluid comprises tetramethyl ammonium hydroxide.
- 67. (Original): The method of claim 53 wherein the basic treating fluid comprises potassium hydroxide.
- 68. (Original): The method of claim 53 wherein the basic treating fluid comprises sodium hydroxide.
- 69. (Original): The method of claim 53 wherein the basic treating fluid comprises ammonium fluoride.

- 70. (Original): The method of claim 53 wherein the basic treating fluid comprises an alkyl amine.
- 71. (Currently Amended): The method of claim 53 wherein A method of forming a patterned photoresist layer over a semiconductor substrate, comprising:

providing a semiconductor substrate;

depositing an antireflective coating over the semiconductor substrate,
the antireflective coating having an outer surface;

treating the outer surface with a basic fluid, the basic treating fluid is at being at room ambient temperature and room ambient pressure during the treating:

applying a positive photoresist onto the outer surface which has been treated with the basic treating fluid; and

patterning and developing the positive photoresist effective to form a patterned photoresist layer having increased footing at a base region of said layer than would otherwise occur in the absence of said treating the outer surface.

72. (New): The method of claim 1 wherein the outer surface comprises a silicon oxide-containing material.

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- 73. (New): The method of claim 30 wherein the outer surface comprises a silicon oxide-containing material.
- 74. (New): The method of claim 53 wherein the outer surface comprises a silicon oxide-containing material.
- 75. (New): The method of claim 53 wherein the outer surface comprises an organic-containing material.
- 76. (New): The method of claim 53 wherein the outer surface comprises a silicon nitride-containing material.
- 77. (New): The method of claim 53 wherein the outer surface comprises a silicon carbide-containing material.